

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Williams Production Company					Lease or Unit Name ROSA UNIT				
Test Type X Initial Annual Special			Test Date 6/28/2001		Well Number #357				
Completion Date		Total Depth		Plug Back TD		Elevation 6640'		Unit Sec Twp Rng A 17 31N 5W	
Casing Size		Weight	d	Set At	Perforations: From To		County B-36-39-6 Rio Arriba		
Tubing Size		Weight	d	Set At	Perforations: From To		Pool Basin		
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation Fruitland Coal		
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa		Connection	
L	H	Gq 0.6	%CO2	%N2	%H2S	Prover 3/4"	Meter Run	Taps	

FLOW DATA					TUBING DATA		CASING DATA		
NO	Prover Line Size	X Orifice Size	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Duration of Flow
SI	2" X 3/4"				0		1160		0
1					465	62	840		0.5 hr
2					310	66	690		1.0 hr
3					120	70	645		1.5 hrs
4					30	71	420		2.0 hrs
5					65	76	390		3.0 hrs

RATE OF FLOW CALCULATION									
NO	Coeficient (24 Hours)	hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd		
1	0.604		77	0.985	1.29	1.011	950		
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl. Deq.
1					A.P.I Gravity of Liquid Hydrocabrons _____	
2					Specific Gravity Separator _____	
3					Specific Gravity Flowing Fluid XXXXXXXXXX	XXXXXX
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

NO	Pt1	Pw	Pw ²	Pc ² -Pw ²	(1) $\frac{Pc^2}{Pc^2 - Pw^2} =$	(2) $\frac{Pc^{2.9n}}{Pc^2 - Pw^2} =$
	1172			1373584	1.1333388	1.0984
1		402	161604	1211980		
2						
3						
4						

Absolute Open Flow 1043		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By: Stergie Katirgis